

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN051722\
 Data File : VN072527.D
 Acq On : 17 May 2022 11:40
 Operator : JC\MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Manual Integrations
 APPROVED

Reviewed By : John Carlone 05/18/2022
 Supervised By : Mahesh Dadoda 05/18/2022

Quant Time: May 18 07:53:18 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N051622W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue May 17 06:34:50 2022
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	7.657	128	28149	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.963	114	141427	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.739	117	132448	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.428	65	88677	27.996	ug/l	0.00
Spiked Amount 30.000	Range	91 - 110	Recovery	=	93.333%	
60) 4-Bromofluorobenzene	12.727	95	77693	30.042	ug/l	0.00
Spiked Amount 30.000	Range	63 - 112	Recovery	=	100.133%	
63) Toluene-d8	10.433	98	226895	31.382	ug/l	0.00
Spiked Amount 30.000	Range	91 - 112	Recovery	=	104.600%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.075	85	46881	20.049	ug/l	96
3) Chloromethane	2.305	50	40231	19.050	ug/l	93
4) Vinyl Chloride	2.446	62	29963	16.807	ug/l	98
5) Bromomethane	2.846	94	24536	16.920	ug/l	94
6) Chloroethane	3.016	64	22718	19.513	ug/l	91
7) Trichlorofluoromethane	3.375	101	75961	18.037	ug/l	99
8) Diethyl Ether	3.822	74	23921	18.882	ug/l	93
9) 1,1,2-Trichlorotrifluo...	4.222	101	40472m	20.396	ug/l	
10) 1,1-Dichloroethene	4.175	96	34321	19.182	ug/l	95
11) Methyl Iodide	4.422	142	49683	18.439	ug/l	90
12) Methyl Acetate	4.851	43	49187	16.993	ug/l	97
13) Acrolein	4.034	56	46214m	101.614	ug/l	
14) Acrylonitrile	5.551	53	105275	86.207	ug/l	99
15) Acetone	4.293	58	25764	80.457	ug/l	93
16) Carbon Disulfide	4.528	76	88952	19.166	ug/l	96
17) Allyl chloride	4.840	41	57329	17.751	ug/l	88
18) Methylene Chloride	5.093	84	43398	20.492	ug/l	99
19) trans-1,2-Dichloroethene	5.604	96	39413	20.056	ug/l	89
20) Diisopropyl ether	6.493	45	130179	19.389	ug/l	97
21) 1,1-Dichloroethane	6.381	63	76551	19.066	ug/l	96
22) cis-1,2-Dichloroethene	7.322	96	45978	19.928	ug/l	95
23) tert-Butyl Alcohol	5.369	59	34075m	63.614	ug/l	
24) Methyl tert-Butyl Ether	5.604	73	138489	18.868	ug/l	100
25) Chloroform	7.816	83	85809	19.816	ug/l	100
26) Cyclohexane	8.092	56	62211	19.093	ug/l #	99
29) 1,1-Dichloropropene	8.216	75	58800	20.876	ug/l	95
30) 2-Butanone	7.328	43	139823	85.770	ug/l	97
31) 2,2-Dichloropropane	7.322	77	70588	20.200	ug/l	94
32) 1,1,1-Trichloroethane	8.010	97	82505	20.536	ug/l	99
33) Carbon Tetrachloride	8.204	117	71483	20.022	ug/l	97
34) Benzene	8.451	78	172028	21.494	ug/l	98
35) Methacrylonitrile	7.634	41	31604	18.336	ug/l	95
36) 1,2-Dichloroethane	8.528	62	75114	20.153	ug/l	98
37) Trichloroethene	9.210	130	46532	21.430	ug/l	97
38) Methylcyclohexane	9.457	83	65332	20.062	ug/l	92
39) 1,2-Dichloropropane	9.486	63	43947	21.799	ug/l	96
40) Dibromomethane	9.575	93	31714	20.378	ug/l	91
41) Bromodichloromethane	9.757	83	68931	20.906	ug/l	96
42) Vinyl Acetate	6.428	43	546553m	99.610	ug/l	

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.404	43	59714	18.757	ug/l	97
44) Isopropyl Acetate	8.557	43	93545	18.356	ug/l	96
45) 1,4-Dioxane	9.569	88	13971	287.835	ug/l	94
46) Methyl methacrylate	9.557	41	42559	17.649	ug/l	83
47) n-amyl Acetate	12.380	43	59958	17.575	ug/l	93
48) t-1,3-Dichloropropene	10.716	75	66815	19.196	ug/l	97
49) cis-1,3-Dichloropropene	10.186	75	70109	19.984	ug/l	97
50) 1,1,2-Trichloroethane	10.892	97	45500	21.196	ug/l	96
51) Ethyl methacrylate	10.757	69	61703	18.434	ug/l	94
52) 1,3-Dichloropropane	11.039	76	76253	20.560	ug/l	100
53) Dibromochloromethane	11.233	129	53899	20.796	ug/l	97
54) 1,2-Dibromoethane	11.339	107	47402	20.759	ug/l	99
55) 2-Chloroethyl vinyl ether	10.033	63	72244	85.063	ug/l	98
56) Bromoform	12.457	173	37108	18.984	ug/l #	98
58) 4-Methyl-2-Pentanone	10.328	43	291905	93.531	ug/l	97
59) 2-Hexanone	11.080	43	197630	86.198	ug/l	96
61) Tetrachloroethene	10.975	164	44497	22.434	ug/l	91
62) Toluene	10.498	91	189800	21.212	ug/l	95
64) Chlorobenzene	11.763	112	117379	21.030	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.839	131	49731	21.549	ug/l	95
66) Ethyl Benzene	11.839	91	201286	20.000	ug/l	99
67) m/p-Xylenes	11.951	106	162861	42.681	ug/l	96
68) o-Xylene	12.275	106	79812	21.160	ug/l	99
69) Styrene	12.292	104	125902	20.958	ug/l	97
70) Isopropylbenzene	12.574	105	208882	20.870	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.822	83	64396	21.069	ug/l	97
72) 1,2,3-Trichloropropane	12.874	75	58495m	20.406	ug/l	
73) Bromobenzene	12.857	156	50514	20.971	ug/l	95
74) n-propylbenzene	12.916	91	228644	20.868	ug/l	100
75) 2-Chlorotoluene	13.004	91	149221	21.079	ug/l	97
76) 1,3,5-Trimethylbenzene	13.051	105	183154	21.396	ug/l	99
77) t-1,4-Dichloro-2-butene	12.622	75	16459	17.377	ug/l	83
78) 4-Chlorotoluene	13.098	91	138715	20.906	ug/l	96
79) tert-butylbenzene	13.316	119	156930	20.865	ug/l	99
80) 1,2,4-Trimethylbenzene	13.363	105	174976m	21.212	ug/l	
81) sec-Butylbenzene	13.498	105	203292	20.387	ug/l	100
82) p-Isopropyltoluene	13.610	119	166326	20.154	ug/l	99
83) 1,3-Dichlorobenzene	13.610	146	89524	21.771	ug/l	98
84) 1,4-Dichlorobenzene	13.692	146	81322	20.324	ug/l	98
85) n-Butylbenzene	13.939	91	110859	18.127	ug/l	95
86) Hexachloroethane	14.210	117	28948	19.049	ug/l	87
87) 1,2-Dichlorobenzene	13.986	146	85419	21.248	ug/l	97
88) 1,2-Dibromo-3-Chloropr...	14.598	75	12482	17.349	ug/l	98
89) 1,2,4-Trichlorobenzene	15.257	180	32569	17.898	ug/l	98
90) Hexachlorobutadiene	15.363	225	24052	21.386	ug/l	96
91) Naphthalene	15.504	128	80403	18.150	ug/l	100
92) 1,2,3-Trichlorobenzene	15.698	180	32219	17.393	ug/l	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

